

09/185, 904

1

SEQUENCE LISTING

<110> Anderson, Christen M.
 Davis, Robert E.
 Clevenger, William
 Wiley, Sandra Eileen
 Willer, Scott W.
 Szabo, Tomas R.
 Ghosh, Soumitra S.

<120> PRODUCTION OF ADENINE NUCLEOTIDE
 TRANSLOCATOR (ANT), NOVEL ANT LIGANDS AND SCREENING ASSAYS
 THEREFOR

<130> 660088.420

<140> US 09/185,904

<141> 1998-11-03

<160> 33

<170> FastSEQ for Windows Version 3.0

<210> 1

<211> 894

<212> DNA

<213> Homo sapien

<400> 1

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gccagcaaac	agatcagtg	tgagaagcag	tacaaagga	tcattgattg	tgtggtgaga	180
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tacttcccca	cccaagctct	caacttcgcc	ttcaaggaca	agtacaagca	gctcttotta	300
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caaggcatca	ttatctatag	agctgcctac	ttcggagtct	atgatactgc	caaggggatg	600
ctgcctgacc	ccaagaacgt	gcacattttt	gtgagctgga	tgattgcccc	gagtgtgacg	660
gcagtcgcag	ggctgctgtc	ctaccccttt	gacactgttc	gtcgtagaat	gatgatgcag	720
tccggccyga	aagggggccga	tattatgtac	acggggacag	ttgactgctg	gaggaagatt	780
gcaaaagacg	aaggagccaa	ggccttcttc	aaagggtgct	gggtccaatgt	gctgagaggg	840
atgggcggtg	cttttgtatt	gggtgtgtat	gatgagatca	aaaaatatgt	ctaa	894

<210> 2

<211> 897

<212> DNA

<213> Homo sapien

<400> 2

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gccagcaagc	agatcactgc	agataagcaa	tacaaaggca	ttatagactg	cgtgggtccgt	180

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attcccaagg	agcaggaagt	tctgtccttc	tggcgcggtg	acctggccaa	tgtcatcaga	240
tacttcccca	cccaggctct	taacttcgcc	ttcaaagata	aatacaagca	gatcttctg	300
ggtggtgtg	acaagagaac	ccagttttgg	cgtactttg	cagggaaatct	ggcatcgggt	360
ggtgccgcag	gggccacatc	cctgtgtttt	gtgtaccctc	ttgattttgc	ccgtaccctg	420
ctagcagctg	atgtgggtaa	agctggagct	gaaagggaat	tccgaggcct	cggtgactgc	480
ctgggttaaga	tctacaaatc	tgatgggatt	aagggcctgt	accaaggctt	taacgtgtct	540
gtgcagggta	ttatcatcta	ccgagccgcc	tacttcggta	tctatgacac	tgcaaagggg	600
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actgctgttg	ccgggttgac	tccctatcca	tttgacaccg	ttcgccgccc	catgatgatg	720
cagtcagggc	gcaaagggaac	tgacatcatg	tacacaggca	cgtttgactg	ctggcggaag	780
attgctcgtg	atgaaggagg	caaagctttt	ttcaagggtg	catggtccaa	tgttctcaga	840
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<210> 3

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<212> DNA

<213> Homo sapien

<400> 3

atgacggaac	aggccatctc	cttcgccaaa	gacttcttgg	ccggaggcat	cgccgccgcc	60
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gccagcaagc	agatcgccgc	cgacaagcag	tacaagggca	tcgtggactg	cattgtccgc	180
atccccaagg	agcagggcgt	gctgtccttc	tggaggggca	accttgccaa	cgtcattcgc	240
tacttcccca	ctcaagccct	caacttcgcc	ttcaaggata	agtacaagca	gatcttcttg	300
gggggctgtg	acaagcacac	gcagtctctg	aggtactttg	cgggcaacct	ggcctccggc	360
ggtgcggccg	gcgcgacctc	cctctgcttc	gtgtaccctc	tggattttgc	cagaacccgc	420
ctggcagcgg	acgtgggaaa	gtcaggcaca	gagcgcgagt	tccgaggcct	gggagactgc	480
ctggtgaaga	tcaccaagtc	cgacggcatc	cggggcctgt	accagggctt	cagtgtctcc	540
gtgcagggca	tcatcatcta	ccgggcggcc	tacttcggcg	tgtacgatac	ggccaagggc	600
atgctccccg	accccaagaa	cacgcacatc	gtggtgagct	ggatgatcgc	gcagaccgtg	660
acggccgttg	ccggcgtggg	gtectacccc	ttcgacacgg	tgcggcgggc	catgatgatg	720
cagtcggggc	gcaaaggagc	tgacatcatg	tacacgggca	ccgtcgactg	ttggaggaag	780
atcttcagag	atgagggggg	caaggccttc	ttcaagggtg	cgtggtccaa	cgtcctgcgg	840
ggcatggggg	gcgccttcgt	gctggtcctg	tacgacgagc	tcaagaaggt	gatctaa	897

<210> 4

<211> 43

<212> DNA

<213> PCR Artificial Sequence

<220>

<223> PCR Primer

<400> 4

ttatatctcg	agtatgggtg	atcacgcttg	gagcttctta	aag	43
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<210> 5

<211> 43

<212> DNA

<213> PCR Artificial Sequence

<400> 5

tatataggta	ccttagacat	atTTTTTgat	ctcatcatac	aac	43
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<210> 6

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3

<211> 43
<212> DNA
<213> PCRArtificial Sequence

<400> 6
ttatatctcg agtatgacag atgccgctgt gtccttcgcc aag 43

<210> 7
<211> 43
<212> DNA
<213> PCRArtificial Sequence

<400> 7
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<210> 8
<211> 43
<212> DNA
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<400> 8
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<210> 9
<211> 44
<212> DNA
<213> PCRArtificial Sequence

<400> 9
tatataggta ctttagagtc accttcttga gctcgtcgta cagg 44

<210> 10
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Sequence primer

<400> 10
tatgccatag catttttata c 21

<210> 11
<211> 18
<212> DNA
<213> Artificial Sequence

<400> 11
cgccaaaaca gccagct 18

<210> 12
<211> 45
<212> DNA
<213> Artificial Sequence

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<220>
<223> Mutagenic oligonucleotide primer

<400> 12
ggagatggcc tgttccgtca tcttaccgtc atcgctgtac agatc 45

<210> 13
<211> 45
<212> DNA
<213> Artificial Sequence

<400> 13
gatctgtacg acgatgacga taagatgacg gaacaggcca tctcc 45

<210> 14
<211> 35
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR primer

<400> 14
cccggggaat tctgatgacg gaacaggcca tctcc 35

<210> 15
<211> 34
<212> DNA
<213> Artificial Sequence

<400> 15
cccgggctcg agtttagatc accttcttga gctc 34

<210> 16
<211> 41
<212> DNA
<213> Artificial Sequence

<400> 16
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<210> 17
<211> 41
<212> DNA
<213> Artificial Sequence

<400> 17
ttaaagaatt cttagatcac cttcttgagc tcgtcgtaca g 41

<210> 18
<211> 18
<212> DNA
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<220>

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<223> Sequencing primer

<400> 18
aaatgataac catctcgc 18

<210> 19
<211> 18
<212> DNA
<213> Artificial Sequence

<400> 19
acttcaagga gaatttcc 18

<210> 20
<211> 18
<212> DNA
<213> Artificial Sequence

<400> 20
acttcgcctt cacggata 18

<210> 21
<211> 18
<212> DNA
<213> Artificial Sequence

<400> 21
tacggccaag ggcattct 18

<210> 22
<211> 18
<212> DNA
<213> Artificial Sequence

<400> 22
tgaagcggaa gttcctat 18

<210> 23
<211> 18
<212> DNA
<213> Artificial Sequence

<400> 23
atgccggttc ccgtacga 18

<210> 24
<211> 31
<212> DNA
<213> Artificial Sequence

<220>
<223> Mutagenic oligonucleotide primer

<400> 24
ggcctgttcc gtcattctat cgtcatcgtc g 31

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<210> 25
 <211> 31
 <212> DNA
 <213> Artificial Sequence

 <400> 25
 cgacgatgac gataagatga cggaacaggc c 31

 <210> 26
 <211> 41
 <212> DNA
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 <220>
 <223> PCR primer

 <400> 26
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 <210> 27
 <211> 41
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 <213> Artificial Sequence

 <400> 27
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 <210> 28
 <211> 42
 <212> DNA
 <213> Artificial Sequence

 <400> 28
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 <210> 29
 <211> 42
 <212> DNA
 <213> Artificial Sequence

 <400> 29
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 <210> 30
 <211> 15
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Synthetic polypeptide

 <400> 30
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 1 5 10 15

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<210> 31
 <211> 297
 <212> PRT
 <213> Homo sapien

<400> 31
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 1 5 10 15
 Val Ala Ala Ala Val Ser Lys Thr Ala Val Ala Pro Ile Glu Arg Val
 20 25 30
 Lys Leu Leu Leu Gln Val Gln His Ala Ser Lys Gln Ile Ser Ala Glu
 35 40 45
 Lys Gln Tyr Lys Gly Ile Ile Asp Cys Val Val Arg Ile Pro Lys Glu
 50 55 60
 Gln Gly Phe Leu Ser Phe Trp Arg Gly Asn Leu Ala Asn Val Ile Arg
 65 70 75 80
 Tyr Phe Pro Thr Gln Ala Leu Asn Phe Ala Phe Lys Asp Lys Tyr Lys
 85 90 95
 Gln Leu Phe Leu Gly Gly Val Asp Arg His Lys Gln Phe Trp Arg Tyr
 100 105 110
 Phe Ala Gly Asn Leu Ala Ser Gly Gly Ala Ala Gly Ala Thr Ser Leu
 115 120 125
 Cys Phe Val Tyr Pro Leu Asp Phe Ala Arg Thr Arg Leu Ala Ala Asp
 130 135 140
 Val Gly Arg Arg Ala Gln Arg Glu Phe His Gly Leu Gly Asp Cys Ile
 145 150 155 160
 Ile Lys Ile Phe Lys Ser Asp Gly Leu Arg Gly Leu Tyr Gln Gly Phe
 165 170 175
 Asn Val Ser Val Gln Gly Ile Ile Ile Tyr Arg Ala Ala Tyr Phe Gly
 180 185 190
 Val Tyr Asp Thr Ala Lys Gly Met Leu Pro Asp Pro Lys Asn Val His
 195 200 205
 Ile Phe Val Ser Trp Met Ile Ala Gln Ser Val Thr Ala Val Ala Gly
 210 215 220
 Leu Leu Ser Tyr Pro Phe Asp Thr Val Arg Arg Arg Met Met Met Gln
 225 230 235 240
 Ser Gly Arg Lys Gly Ala Asp Ile Met Tyr Thr Gly Thr Val Asp Cys
 245 250 255
 Trp Arg Lys Ile Ala Lys Asp Glu Gly Ala Lys Ala Phe Phe Lys Gly
 260 265 270
 Ala Trp Ser Asn Val Leu Arg Gly Met Gly Gly Ala Phe Val Leu Val
 275 280 285
 Leu Tyr Asp Glu Ile Lys Lys Tyr Val
 290 295

<210> 32
 <211> 298
 <212> PRT
 <213> Homo sapien

<400> 32
 Met Thr Asp Ala Ala Leu Ser Phe Ala Lys Asp Phe Leu Ala Gly Gly
 1 5 10 15
 Val Ala Ala Ala Ile Ser Lys Thr Ala Val Ala Pro Ile Glu Arg Val

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20 25 30
 Lys Leu Leu Leu Gln Val Gln His Ala Ser Lys Gln Ile Thr Ala Asp
 35 40 45
 Lys Gln Tyr Lys Gly Ile Ile Asp Cys Val Val Arg Ile Pro Lys Glu
 50 55 60
 Gln Glu Val Leu Ser Phe Trp Arg Gly Asn Leu Ala Asn Val Ile Arg
 65 70 75 80
 Tyr Phe Pro Thr Gln Ala Leu Asn Phe Ala Phe Lys Asp Lys Tyr Lys
 85 90 95
 Gln Ile Phe Leu Gly Gly Val Asp Lys Arg Thr Gln Phe Trp Arg Tyr
 100 105 110
 Phe Ala Gly Asn Leu Ala Ser Gly Gly Ala Ala Gly Ala Thr Ser Leu
 115 120 125
 Cys Phe Val Tyr Pro Leu Asp Phe Ala Arg Thr Arg Leu Ala Ala Asp
 130 135 140
 Val Gly Lys Ala Gly Ala Glu Arg Glu Phe Arg Gly Leu Gly Asp Cys
 145 150 155 160
 Leu Val Lys Ile Tyr Lys Ser Asp Gly Ile Lys Gly Leu Tyr Gln Gly
 165 170 175
 Phe Asn Val Ser Val Gln Gly Ile Ile Ile Tyr Arg Ala Ala Tyr Phe
 180 185 190
 Gly Ile Tyr Asp Thr Ala Lys Gly Met Leu Pro Asp Pro Lys Asn Thr
 195 200 205
 His Ile Val Ile Ser Trp Met Ile Ala Gln Thr Val Thr Ala Val Ala
 210 215 220
 Gly Leu Thr Ser Tyr Pro Phe Asp Thr Val Arg Arg Arg Met Met Met
 225 230 235 240
 Gln Ser Gly Arg Lys Gly Thr Asp Ile Met Tyr Thr Gly Thr Leu Asp
 245 250 255
 Cys Trp Arg Lys Ile Ala Arg Asp Glu Gly Gly Lys Ala Phe Phe Lys
 260 265 270
 Gly Ala Trp Ser Asn Val Leu Arg Gly Met Gly Gly Ala Phe Val Leu
 275 280 285
 Val Leu Tyr Asp Glu Ile Lys Lys Tyr Thr
 290 295

<210> 33

<211> 298

<212> PRT

<213> Homo sapien

<400> 33

Met Thr Glu Gln Ala Ile Ser Phe Ala Lys Asp Phe Leu Ala Gly Gly
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 20 25 30
 Lys Leu Leu Leu Gln Val Gln His Ala Ser Lys Gln Ile Ala Ala Asp
 35 40 45
 Lys Gln Tyr Lys Gly Ile Val Asp Cys Ile Val Arg Ile Pro Lys Glu
 50 55 60
 Gln Gly Val Leu Ser Phe Trp Arg Gly Asn Leu Ala Asn Val Ile Arg
 65 70 75 80
 Tyr Phe Pro Thr Gln Ala Leu Asn Phe Ala Phe Lys Asp Lys Tyr Lys
 85 90 95
 Gln Ile Phe Leu Gly Gly Val Asp Lys His Thr Gln Phe Trp Arg Tyr

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DOCKET NO.: 660088.420
APPLICANTS: Christen M. Anderson et al.
TITLE: PRODUCTION OF ADENINE
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TRANSLOCATOR (ANT).
NOVEL ANT LIGANDS AND
SCREENING ASSAYS.....
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OPERATING SYSTEM: PC-DOS/MS-DOS
MEDIA: 3.5 inch Diskette, 1.44Mb
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